

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
44375/24:1APPLICATION NO.  
10/016,631INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)APPLICANTS  
Andre F.A. Fournier, Allen A. Jahani,  
Michael S. Sawyer, and Stephen M. GrantFILING DATE  
November 1, 2001GROUP  
2684

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |    | DOCUMENT NUMBER |   |   |   |   |   |   | DATE    | NAME                     | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|----|-----------------|---|---|---|---|---|---|---------|--------------------------|-------|----------|----------------------------|
| <i>P</i>         | AA | 5               | 0 | 4 | 3 | 7 | 3 | 6 | 8/1991  | Darnell, <i>et al.</i>   | 342   | 357      |                            |
| <i>P</i>         | AB | 5               | 2 | 3 | 5 | 6 | 3 | 3 | 8/1993  | Dennison, <i>et al.</i>  | 379   | 60       |                            |
| <i>P</i>         | AC | 5               | 3 | 6 | 5 | 4 | 5 | 0 | 11/1994 | Schuchman, <i>et al.</i> | 364   | 449      |                            |
| <i>E</i>         | AD | 5               | 4 | 7 | 9 | 4 | 8 | 0 | 12/1995 | Scott                    | 379   | 59       |                            |
| <i>E</i>         | AE | 5               | 4 | 2 | 2 | 8 | 1 | 6 | 6/1995  | Sprague, <i>et al.</i>   | 364   | 449      |                            |
| <i>E</i>         | AF | 5               | 3 | 8 | 8 | 1 | 4 | 7 | 2/1995  | Grimes                   | 379   | 59       |                            |
| <i>E</i>         | AG | 5               | 4 | 8 | 3 | 5 | 4 | 9 | 1/1996  | Weinberg, <i>et al.</i>  | 375   | 200      |                            |
| <i>E</i>         | AH | 5               | 5 | 1 | 9 | 4 | 0 | 3 | 5/1996  | Bickley, <i>et al.</i>   | 342   | 352      |                            |
| <i>E</i>         | AI | 5               | 5 | 4 | 6 | 4 | 4 | 5 | 8/1996  | Dennison, <i>et al.</i>  | 379   | 60       |                            |
| <i>E</i>         | AJ | 5               | 5 | 5 | 5 | 2 | 8 | 6 | 9/1996  | Tendler                  | 379   | 59       |                            |
| <i>E</i>         | AK | 5               | 2 | 0 | 1 | 0 | 7 | 1 | 4/1993  | Webb                     | 455   | 101      |                            |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |    | DOCUMENT NUMBER | DATE    | COUNTRY                | CLASS | SUBCLASS | TRANSLATION                         |    |
|------------------|----|-----------------|---------|------------------------|-------|----------|-------------------------------------|----|
|                  |    |                 |         |                        |       |          | YES                                 | NO |
| <i>E</i>         | AL | WO 89/12835     | 12/1989 | WIPO                   | G01S  | 5/02     | <input checked="" type="checkbox"/> |    |
| <i>E</i>         | AM | 0 512 789 A2    | 5/1992  | European Patent Office | G01S  | 5/14     | <input checked="" type="checkbox"/> |    |
| <i>E</i>         | AN | WO 96/18275     | 6/1996  | WIPO                   | H04Q  | 7/32     | <input checked="" type="checkbox"/> |    |
| <i>E</i>         | AO | 0 545 783 A1    | 6/1993  | European Patent Office | H04L  | 27/32    | <input checked="" type="checkbox"/> |    |
| <i>E</i>         | AP | 0 545 783 A1    | 6/1993  | European Patent Office | H04L  | 27/32    | <input checked="" type="checkbox"/> |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

|          |    |  |
|----------|----|--|
| <i>E</i> | AR | PCT International Search Report dated 27.11.00 for International Application No. PCT/US00/13288.   |
| <i>E</i> | AS | Mueller, A.J., <i>et al.</i> , "A DSP Implemented Dual 9600/7200 BPS TCM Modem for Mobile Communications Over FM Voice Radios," Proceedings of the 1997 6th IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Vol. 2, 20-22, August 1997, pages 758-761, IEEE, New York, New York. |

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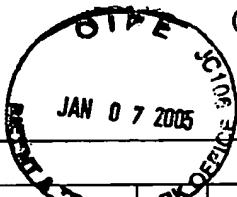
DATE CONSIDERED

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|------------------|------------------|---------|-------------------|-------|----------|----------------------------|
| R                | AT 5 7 1 2 8 9 9 | 1/1998  | Pace, II          | 379   | 58       |                            |
| R                | AU 5 7 2 6 8 9 3 | 3/1998  | Schuchman, et al. | 364   | 449.7    |                            |
| R                | AV 5 7 2 6 9 8 4 | 3/1998  | Kubler, et al.    | 370   | 349      |                            |
| R                | AW 5 8 1 2 0 8 7 | 9/1998  | Krasner           | 342   | 357      |                            |
| R                | AX R E 3 5 9 1 6 | 10/1998 | Dennison, et al.  | 455   | 456      |                            |
| R                | AY 5 9 4 5 9 4 4 | 8/1999  | Krasner           | 342   | 357.06   |                            |
| R                | AZ 5 9 4 6 6 1 1 | 8/1999  | Dennison, et al.  | 455   | 404      |                            |
| R                | BA 5 9 7 0 1 3 0 | 10/1999 | Katko             | 379   | 201      |                            |
| R                | BB 6 0 0 2 3 6 3 | 12/1999 | Krasner           | 342   | 357.1    |                            |
| R                | BC 6 0 2 1 1 6 3 | 2/2000  | Hoshi             | 375   | 272      |                            |
| R                | BD 6 1 4 0 9 5 6 | 10/2000 | Hillman, et al.   | 342   | 357.07   |                            |

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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|------------------|-----------------|---------|---------|-------|----------|-------------|----|
|                  |                 |         |         |       |          | YES         | NO |
| R                | BE WO 99/49677  | 9/1999  | WIPO    | H04Q  | 7/22     |             |    |
| R                | BF WO 00/11893  | 3/2000  | WIPO    | H04Q  | 7/00     |             |    |
| R                | BG WO 98/53573  | 11/1998 | WIPO    | H04L  |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

|   |    |   |
|---|----|---|
| R | BH | Coleman, A., et al., "Subjective Performance Evaluation of the RPE-LTP Codec for the Pan-European Cellular Digital Mobile Radio System," Globecom '89, IEEE Global Telecommunications Conference and Exhibition, Vol. 2, 27-30, November 1989, pages 1075-1079, IEEE, New York, New York. |
| R | BI | Lin, D., et al., "Data Compression of Voiceband Modem Signals," 40th IEEE Vehicular Technology Conference: On the Move in the 90's. 6-9 May 1990, pages 323-325, IEEE, New York, New York.  |
| R | BJ | PCT International Search Report dated 3 January 2002 for International Application No. PCT/US01/20021.  |

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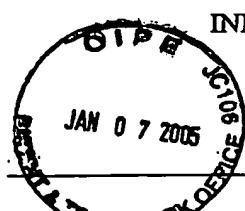
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| <i>TG</i>        | BK | 6               | 2 | 7 | 5 | 9 | 9 | 0 | 8/2001  | Dapper, et al.  | 725   | 106      |                            |
| <i>TG</i>        | BL | 5               | 4 | 1 | 0 | 7 | 3 | 9 | 4/1995  | Hart            | 455   | 66       |                            |
| <i>B</i>         | BM | 5               | 5 | 7 | 2 | 2 | 0 | 4 | 11/1996 | Timm, et al.    | 340   | 988      |                            |
| <i>B</i>         | BN | 5               | 5 | 8 | 7 | 7 | 1 | 5 | 12/1996 | Lewis           | 342   | 357      |                            |
| <i>B</i>         | BO | 5               | 6 | 3 | 0 | 2 | 0 | 6 | 5/1997  | Urban, et al.   | 455   | 54       |                            |
| <i>B</i>         | BP | 5               | 6 | 8 | 6 | 9 | 1 | 0 | 11/1997 | Timm, et al.    | 340   | 988      |                            |
| <i>B</i>         | BR | 5               | 6 | 8 | 7 | 2 | 1 | 5 | 11/1997 | Timm, et al.    | 379   | 58       |                            |
| <i>B</i>         | BS | 5               | 7 | 1 | 1 | 0 | 1 | 3 | 1/1998  | Collett, et al. | 455   | 558      |                            |
| <i>B</i>         | BT | 5               | 7 | 9 | 7 | 0 | 9 | 1 | 8/1998  | Clise, et al.   | 455   | 404      |                            |
| <i>B</i>         | BU | 5               | 9 | 7 | 8 | 6 | 7 | 6 | 11/1999 | Guridi, et al.  | 455   | 426      |                            |
| <i>B</i>         | BV | 6               | 0 | 4 | 4 | 2 | 5 | 7 | 3/2000  | Boling, et al.  | 455   | 404      |                            |

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|                  |    |                 |  |  |  |  |  |  |      |         |       |          | YES         | NO |  |
|                  | BW |                 |  |  |  |  |  |  |      |         |       |          |             |    |  |
|                  | BX |                 |  |  |  |  |  |  |      |         |       |          |             |    |  |
|                  | BY |                 |  |  |  |  |  |  |      |         |       |          |             |    |  |
|                  | BZ |                 |  |  |  |  |  |  |      |         |       |          |             |    |  |
|                  | CA |                 |  |  |  |  |  |  |      |         |       |          |             |    |  |

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|  | CC |  |

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